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APR 10 1973

PROCUREMENT SECTION
CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK FOR ARIZONA

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

SALT RIVER VALLEY WATER USERS ASSOCIATION

and

ARIZONA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF
APR. 1, 1973

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

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WATER SUPPLY OUTLOOK FOR ARIZONA

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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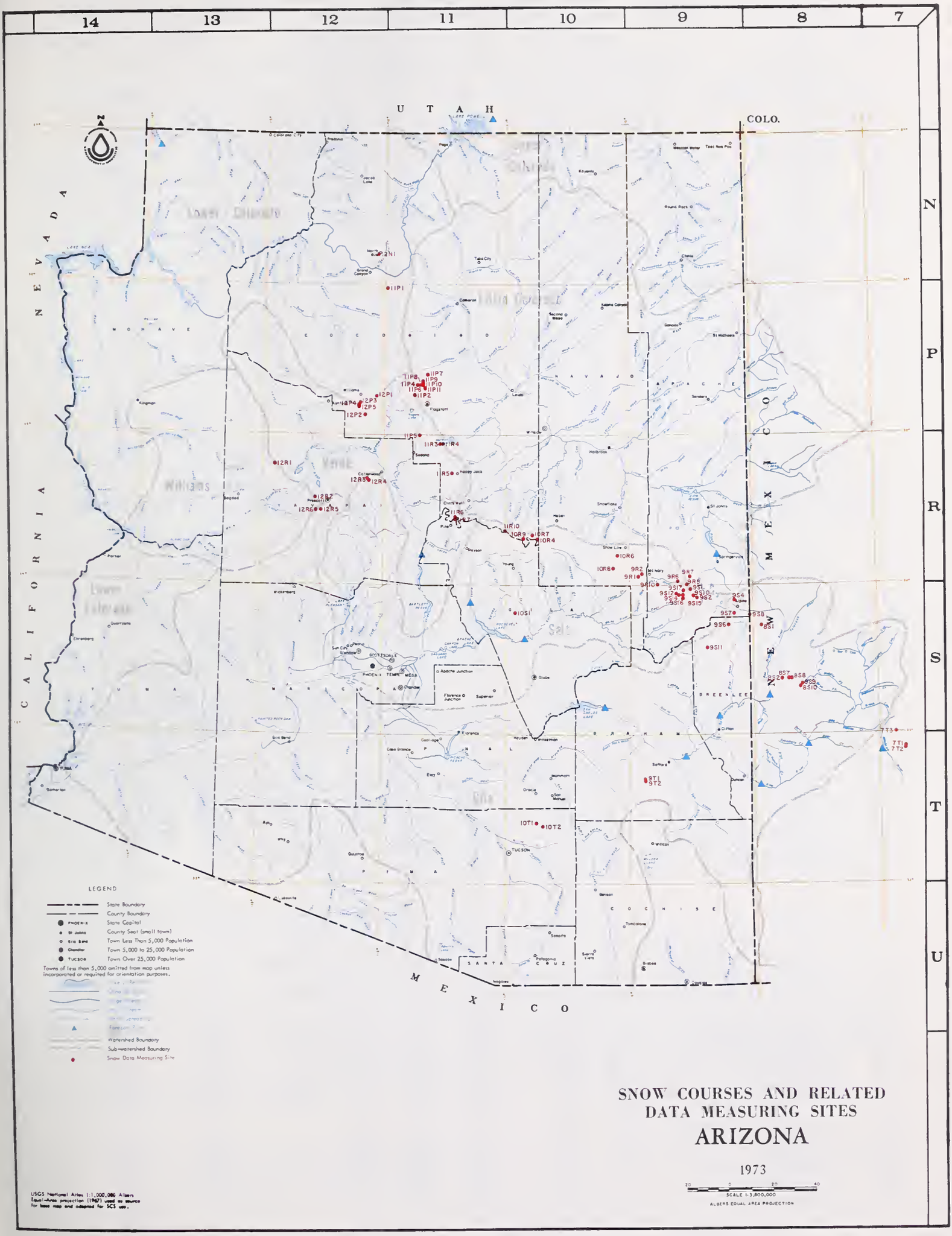


SNOW COURSES AND RELATED DATA MEASURING SITES
ARIZONA

1973

SCALE 1:3,800,000
ALBERS EQUAL AREA PROJECTION

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	DRAINAGE	OBSERVER	RECORD BEGAN
11P10A	Agassiz	32	23N	7E	11200	Little Colorado	SCS	1968
11R7	Baker Butte #2	9	12N	9E	7700	Verde	SCS	1971
11R6PSP	Baker Butte	4	12N	9E	7300	Verde	SCS	1966
9S1APSP	Baldy	28	7N	27E	9125	Little Colorado	SCS	1950
9S15	Baldy #2	12	6N	26E	9750	Little Colorado	SCS	1963
9S16	Baldy #3	13	6N	26E	10950	Little Colorado	SCS	1963
10T1	Bear Wallow	6	12S	16E	8100	Gila	FS	1948
9S6	Beaver Head	13	4N	30E	8000	San Francisco	FS	1938
12P5	Bill Williams Intermediate	17	21N	2E	8550	Cataract	FS	1967
12P4	Bill Williams Summit	17	21N	2E	8950	Verde	FS	1967
9S10m	Black River Divide	10	6N	27E	9400	Salt	SCS	1954
12N1	Bright Angel	34	33N	3E	8400	Bright Angel Creek	NPS	1947
12R1	Camp Wood	3	16N	6W	5700	Verde	FS	1946
10R7M	Canyon Creek #2	18	11N	15E	7500	Little Colorado	SCS	1958
10R9P	Canyon Point	28	11N	14E	7600	Salt	SCS	1967
12P1M	Chalender	27	22N	3E	7100	Verde	FS	1947
9R7	Cheese Springs	28	8N	27E	8600	Little Colorado	SCS	1969
12R6P	Copper Basin Divide	23	13N	3W	6720	Verde	SCS	1963
10R8m	Corduroy Creek	4	8N	21E	6000	Salt	SCS	1954
9S7	Coronado Trail	26	5N	30E	8000	San Francisco	FS	1938
9T2A	Crazy Horse	34	8S	24E	10200	Gila	FS	1963
11P11a	Doyle Saddle	4	22N	7E	10900	Little Colorado	SCS	1968
7T1	Emory Pass #1	16	16S	9W**	7800	Mimbres	SCS	1967
7T2	Emory Pass #2	16	16S	9W**	7800	Mimbres	SCS	1967
10R6	Forest Dale	2	9N	21E	6430	Salt	BIA	1939
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado	SCS	1951
11P2P	Ft. Valley	22	22N	6E	7350	Little Colorado	FS	1947
8S1MP	Frisco Divide	31	6S	20W**	8000	San Francisco	FS	1938
12R4	Gaddes Canyon	11	15N	2E	7600	Verde	SCS	1954
11P1	Grand Canyon	21	30N	4E	7500	Hance Creek	NPS	1947
9S11P	Hannagan Meadows	19	3N	29E	9090	San Francisco	FS	1964
11R5P	Happy Jack	30	16N	9E	7630	Verde	FS	1951
9R10	Hawley Lake	13	7N	24E	8300	Salt	BIA	1966
10R4PSP	Heber	28	11N	15E	7600	Little Colorado	SCS	1950
9T1A	High Peak	34	8S	24E	10500	Gila	FS	1963
8S9A	Hummingbird	19	11S	17W**	10550	Gila	SCS	1964
11P9P	Inner Basin #1	28	23N	7E	10000	Little Colorado	SCS-USBR	1967
11P8P	Inner Basin #2	28	23N	7E	9750	Little Colorado	SCS-USBR	1967
11P7	Inner Basin #3	3	23N	7E	10250	Little Colorado	SCS-USBR	1967
12R2	Iron Springs	22	14N	3W	6200	Bill Williams	SCS	1946
9S2APSP	Maverick Fork	13	6N	27E	9150	Salt	SCS	1950
7S3A	McKnight Cabin	10	15S	10W**	9300	Mimbres	SCS	1967
9R2M	McNary	23	8N	23E	7200	Salt	BIA	1939
9R1	Milk Ranch	33	8N	23E	7000	Salt	BIA	1941
12R3	Mingus Mountain	3	15N	2E	7100	Verde	SCS	1947
8S2	Mogollon	2	11S	19W**	7000	San Francisco	SCS	1953
11R4	Mormon Lake	13	18N	8E	7350	Little Colorado	SCS	1947
11R3MAPSP	Mormon Mountain	14	18N	8E	7500	Verde	SCS	1950
9S12A	Mt. Ord	4	6N	26E	11200	Salt	SRP-SCS	1966
11P5M	Newman Park	25	19N	6E	6750	Verde	SCS	1963
9S4	Nutrioso	23	6N	30E	8500	San Francisco	FS	1938
11R10	Promontory Butte	5	11N	13E	7930	Little Colorado	SCS	1973
8S7	Redstone Trail	5	11S	18W**	8600	San Francisco	SCS	1961
10T2	Rose Canyon	15	12S	16E	7300	Gila	FS	1948
8S8P	Silver Creek Divide	4	11S	18W**	9000	San Francisco	SCS	1964
9S14A	Smith Cienega	10	6N	26E	10050	Salt	SRP-SCS	1966
11P4	Snow Bowl #1	36	23N	6E	10260	Verde	FS	1961
11P6	Snow Bowl #2	31	23N	7E	11000	Verde	FS	1965
9S8	State Line	6	6S	21W**	8000	San Francisco	FS	1938
9S17	Sunrise Summit	36	7N	26E	10600	Salt	FAIR-SCS	1972
12P2P	White Horse Lake Jct.	2	20N	2E	7180	Verde	FS	1967
12R5	White Spar	19	13N	2W	6000	Verde	SCS	1963
8S10A	Whitewater	19	11S	17W**	10750	Gila	SCS	1964
12P3	Williams Ski Run	9	21N	2E	7720	Cataract	FS	1967
9R6P	Wilson Lake	4	7N	26E	9000	Salt	SCS	1966
10S1P	Workman Creek	33	6N	14E	6900	Salt	FS	1952

A Aerial Snow Depth Marker — M Soil Moisture Station — P Precipitation Storage Gage — ** NM Principal Meridian

a Aerial Snow Depth Marker Only — m Soil Moisture Station Only — SP Snow Pressure Pillow

ARIZONA WATER SUPPLY OUTLOOK

APRIL 1, 1973

The Arizona water supply outlook is excellent. All major storage reservoirs will fill this year except San Carlos. Streamflow forecasts have all been raised greatly due to extremely heavy precipitation in the second half of March.

SNOW COVER

Another two feet of snow fell toward the end of the month, raising the snowpack to record proportions at most snow courses. Snow cover is 3 times average for this date on the Gila Watershed, 5 times average on the Salt, and almost 9 times average on the Verde Watershed. Practically no melting has occurred above 7,000 feet all winter, resulting in a steady build-up to April 1. Extremely difficult snow conditions have prevented ground crews reaching some of the higher elevations. Aerial surveys indicate 12 to 14 feet of snow at 11,000 feet.

PRECIPITATION

Mountain precipitation during March was 3 to 5 times average. There were only a few days without any precipitation due to continuous storm activity. Heaviest snowfall occurred on the Verde Watershed and along the Mogollon Rim. Precipitation amounts ranging from 5 to 12 inches were common.

SOIL MOISTURE

The extremely wet soils will result in high water yields from subsequent precipitation.

RESERVOIR STORAGE

Large increases in stored water occurred during March. Only San Carlos Reservoir is not expected to fill, although it will approach the record level of 1942. Water is being released from Salt River Project reservoirs to provide available storage for sudden increases in inflow. Releases are expected to continue through April. About 40% of the released water is recharging the ground water, with the remainder being caught behind Painted Rock Dam. This flood control structure now contains 200,000 acre-feet with 2,000 cfs being released into the lower Gila Channel.

STREAMFLOW AND WATER SUPPLY

Although heavy runoff has already taken place, the snowpack is just now starting to melt. The April-May streamflow is predicted to be about 4 times average. The Salt River Project Watershed is predicted to produce 772,000 acre-feet during April-May, making the total January through May spring runoff 1,780,000 acre-feet. This will be the highest yield since 1941. The April-May forecast of 150,000 acre-feet on the Gila River near Solomon is the highest since 1958, but the January-May total will not exceed the 1968 flow.

Water supplies will be plentiful this year with large amounts of carry-over storage available for next year.

DUE TO THE LATE RUNOFF THIS YEAR, AN APRIL 15 WATER SUPPLY OUTLOOK WILL BE PUBLISHED.

STREAMFLOW FORECASTS ABOUT APRIL 1, 1973

BASIN STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
SALT RIVER DRAINAGE					
Salt near Roosevelt	375	441	April	15.3	85.0
Salt near Roosevelt	525	431	Apr-May	24.6	121.7
Tonto Creek near Roosevelt	47	610	Apr-May	0.8	7.7
Verde River above Horseshoe	200	400	Apr-May	19.1	50.1
Verde River above Horseshoe	170	418	April	10.7	40.7
Total Salt River Project	585	443	April	26.5	132.2
Streams	772	430	Apr-May	44.5	179.5
GILA RIVER DRAINAGE					
Gila River at Calva	100	625	Apr-May	2.7	16.0
Gila River near Gila	60	357	Apr-May	6.5	16.8
Gila River near Solomon	150	434	Apr-May	8.1	34.6
Gila River near Virden	80	460	Apr-May	5.9	17.4
Frisco River at Clifton	75	397	Apr-May	4.9	18.9
Frisco River at Glenwood	36	444	Apr-May	2.3	8.1
Gila River near Solomon	105	419	April	4.7	25.1
LITTLE COLORADO RIVER DRAINAGE					
Little Colo. River above Lyman Dam	21	3.44	Apr-June	0.6	6.1
GRANITE CREEK DRAINAGE					
Granite Creek	2	---	Apr-May	---	---
Willow Creek	.8	---	Apr-May	---	---
MIMBRES RIVER DRAINAGE					
Mimbres River near Mimbres	4	308	Apr-May	0.7	1.3
VIRGIN RIVER DRAINAGE					
Virgin River near Littlefield	105	314	Apr-June	13.0	33.4

The Gila River near Solomon is forecast to flow above 100 cfs until June 25.

+ Based on the 15-year period, 1953-67

+ 1953-1967 period.

USDA-SCS-PORTLAND, OREG. 1973

1973

SPRING RUNOFF

STREAM AND STATION	Measured 1/ Runoff Jan- March	Forecast Runoff April-May	Total-January thru May 1973	15-Year Average	% of Average
Salt River at Intake	509.0	525	1034	280.9	368
Verde River above Horseshoe	354.2	200	554.2	171.9	322
Tonto Creek above Roosevelt	113.9	47	160.9	42.6	378
Gila River near Virden	155.2	80	235.2	59.3	397
Gila River near Solomon	298.6	150	448.6	119.6	375
Frisco River at Clifton	122.6	75	197.6	59.8	330
Little Colorado Jan-June	6 *	21	27	9.0	337
Calva	288.3	100	388.3	78.2	496

1/ Provisional runoff obtained from USGS

* Partially estimated

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

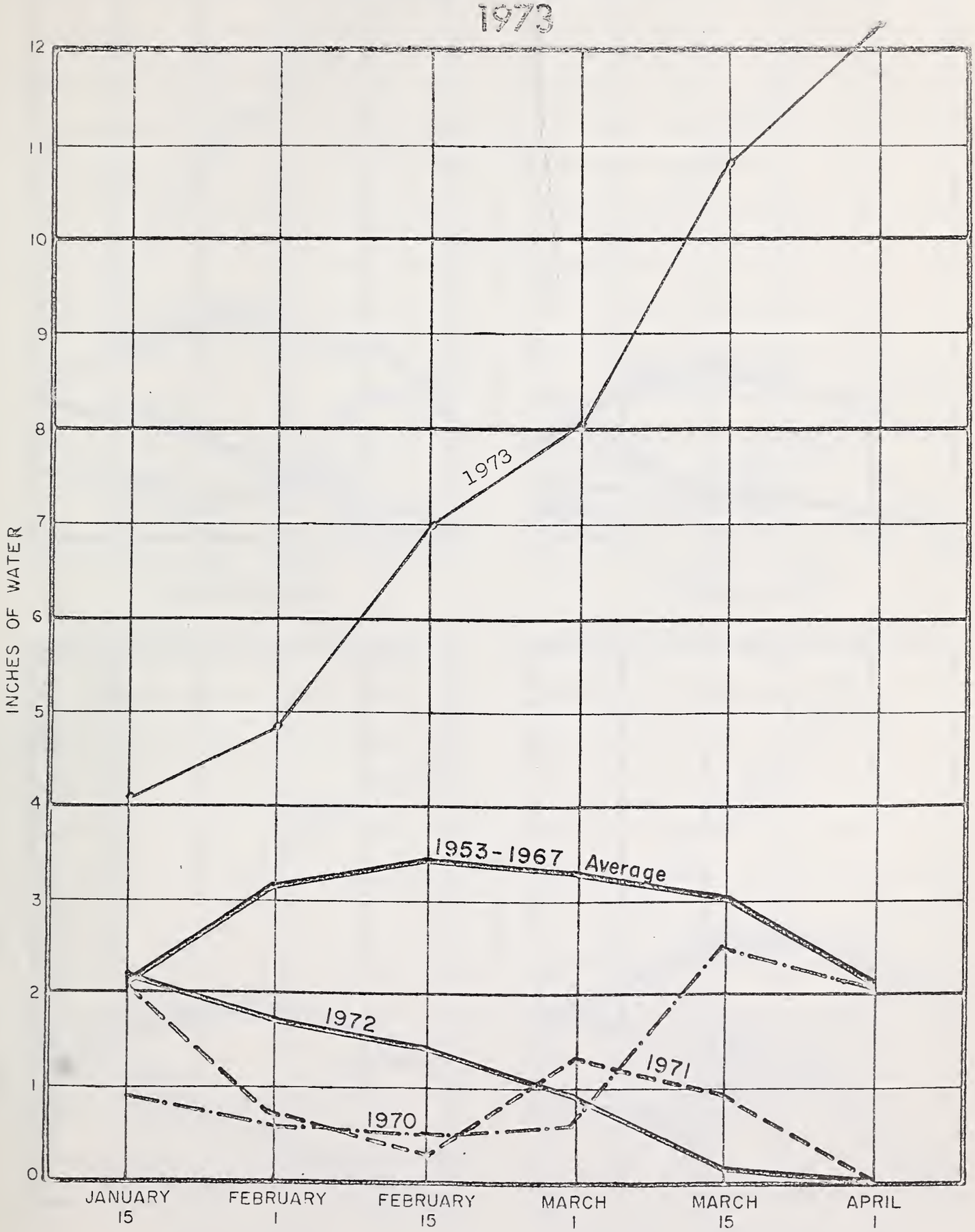
ABOUT APRIL 1, 1973

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GILA RIVER DRAINAGE					
Agua Fria	Lake Pleasant	157.6	147.5	52.3	44.1
Granite	Watson Lake	4.7	4.7	3.2	----
Granite	Willow Creek	6.1	6.1	1.5	----
Gila	San Carlos	948.6	665.3	100.5	118.2
Salt (4)	Roosevelt, Apache, Canyon & Saguaro	1755.0	1,667.3	934.7	1002.5
Verde (2)	Bartlett & Horseshoe	317.7	276.6	60.5	131.0
Salt and Verde	6 Salt River Project Reservoirs	2072.7	1,943.9	994.8	1133.5
COLORADO RIVER DRAINAGE					
Colorado	Lake Havasu	619.4	574.3	568.2	554.5
Colorado	Lake Mohave	1810.0	1,679.0	1686.5	1695.9
Colorado	Lake Mead	26159.0	19,980.0	17174.0	16072.4
Colorado	Lake Powell	25002.0	11,966.0	13449.0	5138.0*
Little Colorado	Lyman	30.6	12.7	9.8	10.8
Little Colorado	Show Low Lake	5.1	5.1	0.8	2.3*

† Based on 15-year period, 1953-67
* Average is for less than 15 years of record

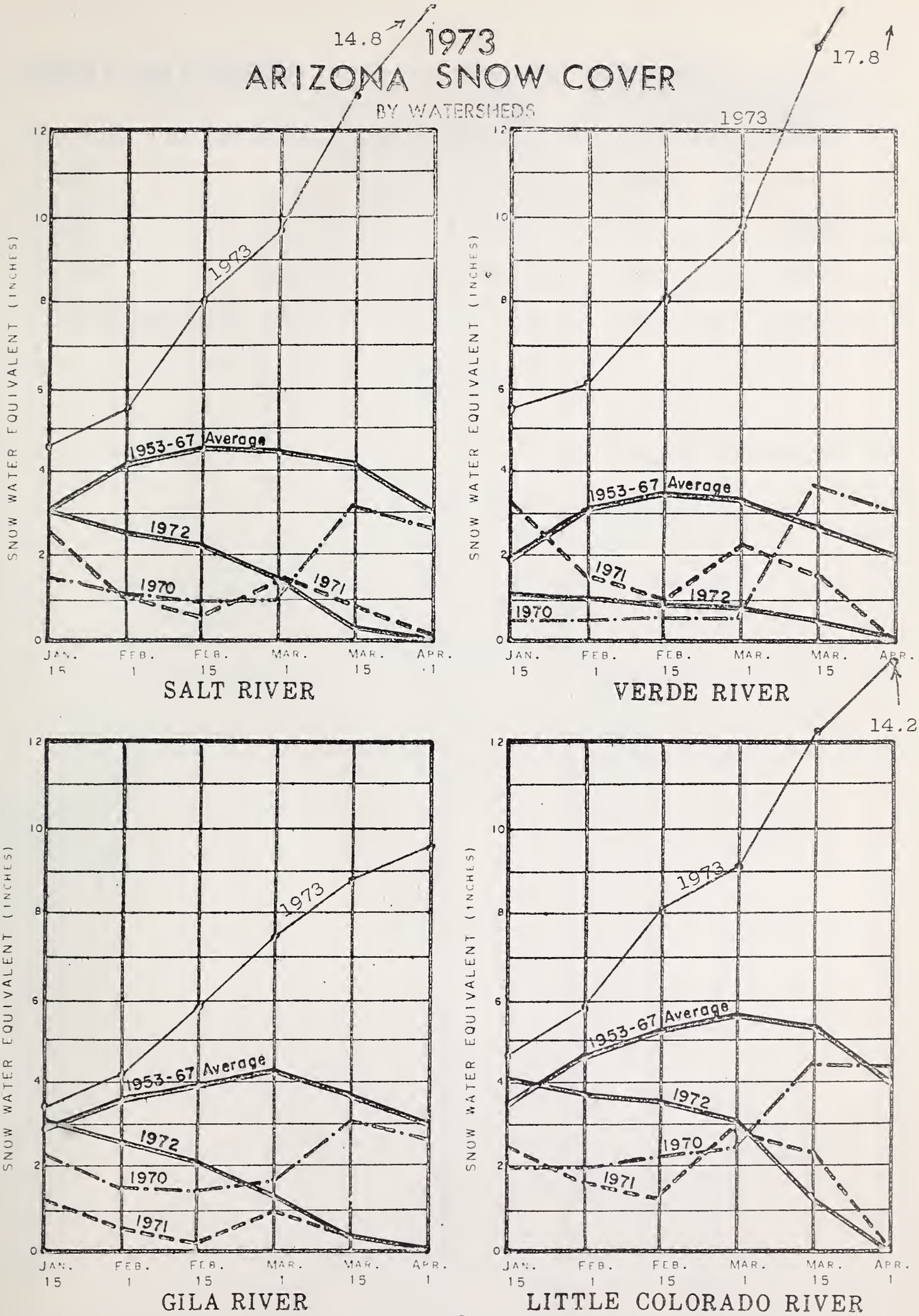
+ 1953-1967 period.

RELATIVE SNOW WATER ACCUMULATION
ARIZONA
1973



This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.

1973
ARIZONA SNOW COVER
BY WATERSHEDS



BASED ON SELECTED SNOW SURVEY COURSES

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS) ABOUT APRIL 1, 1973

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
Gila	10	5944	330
Salt	10	∞	489
Verde	10	∞	893
Little Colorado	5	∞	370

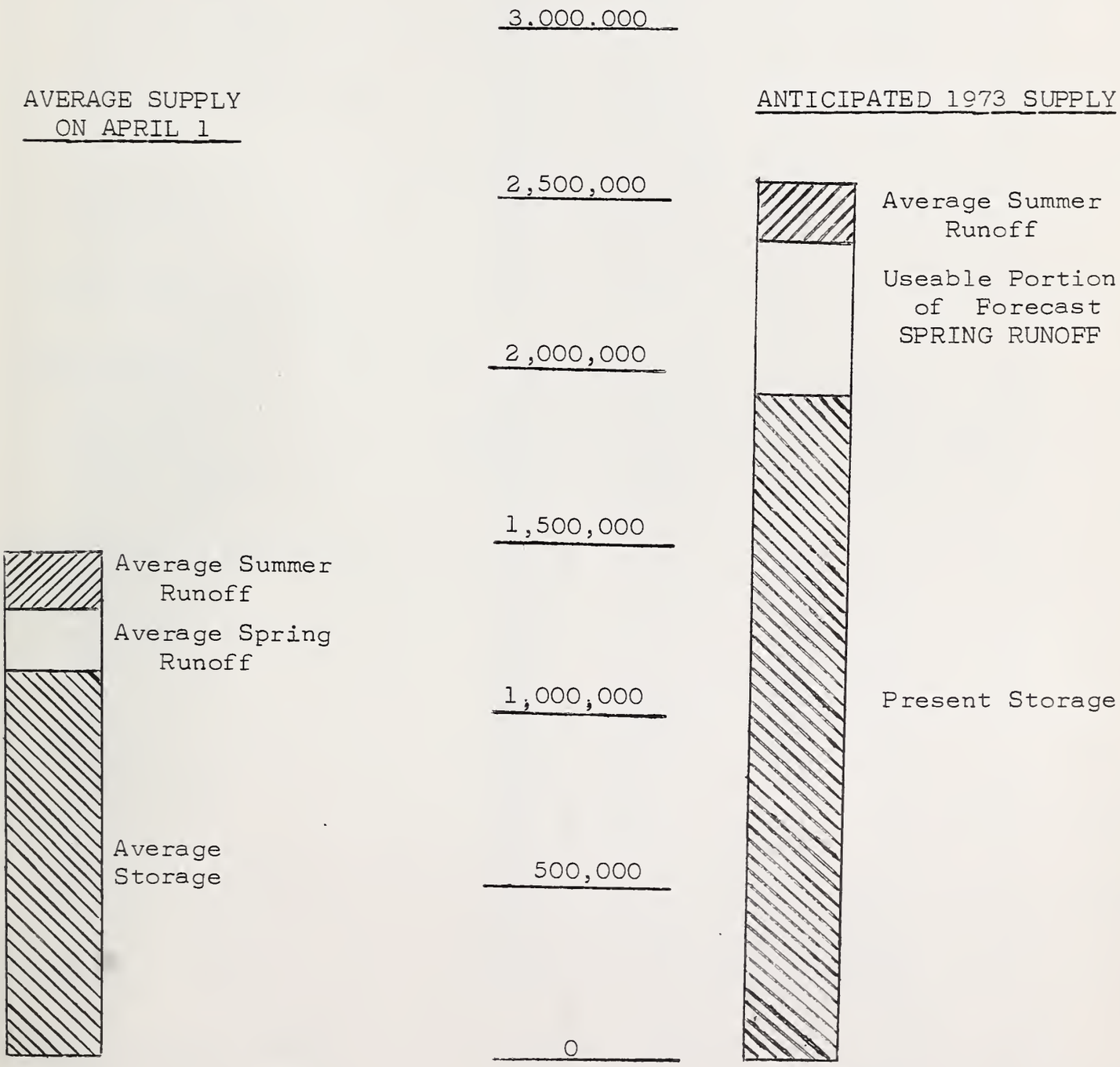
+ 1953-1967 period.

WATER SUPPLY INVENTORY

SALT RIVER VALLEY SYSTEM

APRIL 1, 1973

IN ACRE-FEET



Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff

SNOW ABOUT APR. 1, 1973

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
GILA RIVER						
Bear Wallow	8100	3/31	30	13.0	0.0	2.0
Beaver Head	8000	3/30	23	6.8	0.0	1.0
Coronado Trail	8000	3/29	25	9.0	0.0	0.2
Crazy Horse (A)	10200	---	---	---	---	---
Emory Pass #1 *	7800	3/30	1	0.1	0.0	---
Emory Pass #2 *	7800	3/30	7	2.5	0.0	---
Frisco Divide	8000	3/29	23	6.8	0.0	0.4
Hannagan Meadows *	9090	3/30	67	21.8	0.0	7.8**
High Peak (A)	10500	---	---	---	---	---
Hummingbird (A)	10550	3/31	93	29.7	4.0	18.5**
McKnight Cabin * (A)	9300	3/31	27	8.9	0.0	---
Mogollon	7000	4/2	0	0.0	0.0	0.0
Nutrioso	8500	3/29	19	4.9	0.0	0.2
Redstone Trail	8500	4/1	48	15.1	0.0	6.8**
Rose Canyon	7300	3/31	21	7.6	0.0	0.4
Silver Creek Divide	9000	4/1	67	20.0	1.6	12.2**
State Line	8000	3/29	26	8.3	0.0	0.2
Whitewater (A)	10150	3/31	123	34.4	14.4	22.3**
SALT RIVER						
Baldy *	9125	3/29	57	16.6	0.0	5.3
Baldy #2	9750	---	---	---	6.7	15.5**
Baldy #3	10950	---	---	---	16.9	22.7**
Beaver Head	8000	3/30	23	6.8	0.0	1.0
Canyon Creek	7500	3/29	48	15.0	0.0	1.0**
Canyon Point	7600	3/29	59	17.4	0.0	0.9**
Coronado Trail	8000	3/29	28	9.0	0.0	0.2
Forest Dale	6430	3/30	12	3.1	0.0	0.0
Ft. Apache	9160	3/29	57	16.3	0.0	6.1
Hannagan Meadows	9090	3/30	67	21.8	0.0	7.8**
Hawley Lake	8300	4/2	68	18.8	0.0	3.1**
Heber	7600	3/29	53	16.2	0.0	1.1
Maverick Fork	9050	3/29	64	20.4	0.0	6.8
McNary	7200	3/30	41	11.6	0.0	0.3
Milk Ranch	7000	3/30	32	8.0	0.0	0.1
Mt. Ord (A)	11000	4/2	150	40.5	21.4	22.5**
Nutrioso *	8500	3/29	19	4.9	0.0	0.2
Promontory Butte	7930	---	---	---	---	---
Smith Cienega (A)	9850	4/2	97	30.8	13.6	16.8**
Sunrise Summit	10600	3/30	94	26.8	9.8	---
Wilson Lake	9000	3/30	73	21.6	0.0	7.3**
Workman Creek	6300	3/27	49	19.2	0.0	1.5
BILL WILLIAMS RIVER						
Camp Wood *	5700	3/30	1	0.4	0.0	0.1
Copper Basin Divide	6720	3/30	39	10.8	0.0	0.0*
Iron Springs	6200	3/30	13	2.3	0.0	0.0

+ 1953-67 15-year period. (*) Adjacent drainage. (**) 1953-67 Adjusted average. (A) Aerial observation. Water content estimated.

+ 1953-1967 period.

USDA-SCS-PORTLAND, OREG. 1973 W7-L-2702IC

SNOW ABOUT APRIL 1, 1973

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
VERDE RIVER						
Baker Butte	7300	3/29	77	23.9	0.0	1.6**
Baker Butte #2	7700	3/30	97	30.8	0.0	---
Camp Wood	5700	3/30	1	0.4	0.0	0.1
Chalender	7100	3/30	44	12.0	0.0	0.7
Copper Basin Divide	6720	3/30	39	10.8	0.0	0.0**
Fort Valley	7350	3/30	40	10.8	0.0	0.7
Gaddes Canyon	7600	3/30	72	20.8	0.0	2.6**
Happy Jack	7630	3/30	72	20.1	0.0	1.2
Iron Springs *	6200	3/30	13	2.3	0.0	0.0
Mingus Mountain	7100	3/30	26	6.4	0.0	0.1
Mormon Lake *	7350	3/29	66	19.5	0.0	1.6
Mormon Mountain	7500	3/30	78	24.1	0.0	2.5
Newman Park	6750	3/29	57	14.4	0.0	0.5**
Snow Bowl #1	10260	REPORT DELAYED			1.5	9.0**
Snow Bowl #2	11000	REPORT DELAYED			12.8	14.8**
White Horse Lake Jct.	7150	3/30	57	16.6	0.0	---
White Spar	6000	3/30	12	2.9	0.0	0.0**
LOWER COLORADO RIVER						
Bill Williams Int.	8550	---	--	---	0.0	---
Bill Williams Summit	8950	3/30	108	31.7	0.0	---
Bright Angel	8400	3/30	75	23.6	---	---
Chalender *	7100	3/30	44	12.0	0.0	0.7
Fort Valley	7350	3/30	40	10.8	0.0	0.7
Grand Canyon	7500	3/30	33	10.6	0.0	0.4
Williams Ski Run	7720	3/30	84	23.0	0.0	---
LITTLE COLORADO RIVER						
Agassiz	11200	REPORT DELAYED			11.6	---
Baldy	9125	3/29	57	16.6	0.0	5.3
Baldy #2	9750	---	--	---	6.7	15.5**
Baldy #3	10950	---	--	---	16.9	22.7**
Canyon Creek	7500	3/29	48	15.0	0.0	1.0**
Canyon Point	7600	3/29	59	17.4	0.0	0.9**
Cheese Springs	8600	3/30	44	12.4	0.0	---
Doyle Saddle	10900	---	--	---	---	---
Forest Dale	6430	3/30	12	3.1	0.0	0.0
Ft. Apache	9160	3/29	57	16.3	0.0	6.1
Fort Valley	7350	3/30	40	10.8	0.0	0.7
Happy Jack *	7630	3/30	72	20.1	0.0	1.2
Heber	7600	3/29	53	16.2	0.0	1.1
Inner Basin #1	10100	REPORT DELAYED			4.8	---
Inner Basin #2	9750	REPORT DELAYED			0.2	---
Inner Basin #3	10250	---	--	---	0.1	---
McNary	7200	3/30	41	11.6	0.0	0.3
Mormon Lake	7350	3/29	66	19.5	0.0	1.6
Mormon Mountain	7500	3/30	78	24.1	0.0	2.5
Nutrioso	8500	3/29	19	4.9	0.0	0.2
Promontory Butte	7930	---	--	---	---	---
Snow Bowl #1	10260	REPORT DELAYED			1.5	9.0**
Snow Bowl #2	11000	REPORT DELAYED			12.8	14.8**
Wilson Lake *	9000	3/30	73	21.6	0.0	7.3**

† 1953-67 15-year period. (*) Adjacent drainage. (**) 1953-67 †1953-1967 period. Adjusted average. (A) Aerial observation: Water content estimated.

USDA-SCS-PORTLAND, OREG. 1973 M7-1-27021C

PRECIPITATION (Inches)

ABOUT APRIL 1, 1973

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. NOV. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
GILA RIVER							
Silver Creek Divide	9000	3/30	6.46	2.60*	20.70	13.32*	155
Hannagan Meadows **	9030	3/30	5.30	3.14*	20.88	13.24*	158
Frisco Divide **	8000	3/29	3.10	---	10.41	----	---
SALT RIVER							
Canyon Point	7600	3/29	11.40	3.94*	30.47	17.13*	178
Hannagan Meadows **	9030	3/30	5.30	3.14*	20.88	13.24*	158
Little Wildcat (Heber Snow Course)	7600	3/29	8.78	3.15*	25.42	14.52*	175
Maverick Fork	9050	3/30	6.48	2.59*	19.11	12.52*	153
Workman Creek **	6970	3/27	8.62	3.38	28.83	17.26	167
Wilson Lake	9100	3/30	7.79	---	18.59	----	---
VERDE RIVER							
Baker Butte	7300	3/30	11.49	3.41*	29.63	17.45*	170
Copper Basin Divide	6720	3/30	10.93	2.22*	25.14	11.16*	225
Fort Valley **	7350	3/30	6.57	1.84	16.05	9.10	176
Happy Jack **	7480	3/30	11.06	2.42*	24.58	11.29*	218
Mingus Mountain	7660	3/30	8.15	2.04	21.45	9.79	219
Mormon Mountain	7500	3/30	13.20	2.49*	32.03	15.21*	211
White Horse Lake Jct.**	7150	3/30	8.50	---	23.92	---	---
LITTLE COLORADO							
Inner Basin #1	9830	DELAYED		2.92		15.33	
Inner Basin #2	10050	DELAYED		---		---	---
Sheep Crossing (Baldy Snow Course)	9125	3/29	5.65	2.34*	18.19	11.76*	155
Little Wildcat (Heber Snow Course)	7600	3/29	8.78	3.15*	25.42	14.52*	175
Greer Lakes	8500	3/30	2.46	1.20	7.70	6.10	126

† 1953-67 Average
* Adjusted Average

** Data Supplied by U. S. Forest Service

+ 1953-1967 period.

SOIL MOISTURE ABOUT APRIL 1, 1973

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +
GILA RIVER							
Frisco Divide	8000	48	13.3	3/30	14.2	12.0	11.8
SALT RIVER							
Black River Divide	9100	48	16.8	3/29	18.4	17.9	16.3
Canyon Creek	7500	48	18.3	3/29	18.7	17.4	15.3
Corduroy Creek	6000	36	13.5	3/30	14.9	11.7	9.2
McNary	7200	48	16.3	3/30	17.9	17.9	15.4
VERDE RIVER							
Mormon Mountain	7500	48	16.1	3/30	17.8	17.8	16.6
Newman Park	6750	48	17.7	3/29	19.5	16.3	17.9

+ 1953-67 15-year average

+ 1953-1967 period.

SNOW COURSE	SNOW SURVEYOR
Baker Butte #1 & #2	SCS - Dick Enz
Baldy	SCS - Aubrey Stanton & Wallace Slade
Bear Wallow	Forest Service - Bonde Eulberg
Beaver Head	Forest Service - McDorman and Servis
Bill Williams Intermediate	Forest Service - Mike King
Bill Williams Summit	Forest Service - Mike King
Bright Angel	National Park Service - Kenneth Hockelberg
Camp Wood	Forest Service - Howard & Melcher
Canyon Creek	SCS - Dick Enz
Canyon Point	SCS - Dick Enz
Chalender	Forest Service - Martin Freshour
Cheese Springs	SCS - Aubrey Stanton & Wallace Slade
Copper Basin Divide	SCS - William Gray
Coronado Trail	Forest Service - Warren Cordes
Crazy Horse	Forest Service - Cecil Sims
Emory Pass #1 and #2	SCS - Anderson and Bonomo
Forest Dale	Bureau of Indian Affairs - Endfield & Grippen
Ft. Apache	SCS - Aubrey Stanton and Wallace Slade
Fort Valley	Rocky Mtn. Forest & Range Experiment Station
Frisco Divide	Forest Service - J. L. Lockwood
Gaddes Canyon	Earl Barto
Grand Canyon	National Park Service - David A. Strope
Hannagan Meadows	Forest Service - McDorman and Servis
Happy Jack	Forest Service - Warren Harris & Tom Clifford
Hawley Lake	Bureau of Indian Affairs - Endfield & Grippen
Heber	SCS - Dick Enz
High Peak	Forest Service - Cecil Sims
Hummingbird	Ray Freeman
Inner Basin #1 & #2	SCS and USBR - Jorgensen & Benjamin
Iron Springs	SCS - William Gray
Maverick Fork	SCS - Aubrey Stanton and Wallace Slade
McKnight Cabin	Ray Freeman
McNary	Bureau of Indian Affairs - Endfield & Grippen
Milk Ranch	Bureau of Indian Affairs - Endfield & Grippen
Mingus Mountain	Earl Barto
Mogollon	James Lyon
Mormon Lake	SCS - Jack Jorgensen & Ray Kingston
Mormon Mountain	SCS - Jack Jorgensen & Ray Kingston
Mt. Ord	Salt River Project - Bill Warskow
Newman Park	SCS - Jack Jorgensen & Ray Kingston
Nutrioso	Forest Service - Warren Cordes
Redstone Trail	James Lyon
Rose Canyon	Forest Service - Bonde Eulberg
Silver Creek Divide	James Lyon
Smith Cienega	Salt River Project - Bill Warskow
Snow Bowl #1 & #2	Forest Service - Jim Bedlion
State Line	Forest Service - J. L. Lockwood
Sunrise Summit	SCS - (Sunrise Ski Area) - Stanton & Slade
White Horse Lake Junction	Forest Service - Mike King
White Spar	SCS - William Gray
Whitewater	Ray Freeman
Williams Ski Run	Forest Service - Mike King
Wilson Lake	SCS - Aubrey Stanton & Wallace Slade
Workman Creek	Rocky Mtn. Forest & Range Experiment Station

The Following Organizations Cooperate in the Arizona Snow Survey Work

FEDERAL

- Department of Agriculture
  - Soil Conservation Service
  - Forest Service
    - Apache Forest
    - Coconino Forest
    - Coronado Forest
    - Gila Forest
    - Kaibab Forest
    - Prescott Forest
    - Rocky Mountain Forest and Range Experiment Station
    - Tonto Forest
- Department of Commerce
  - NOAA, National Weather Service
- Department of Interior
  - Bureau of Reclamation
    - Region 111
  - Geological Survey
    - Arizona District
    - New Mexico District
  - Bureau of Indian Affairs
    - Fort Apache Reservation
    - San Carlos Irrigation Project
  - National Park Service
    - Grand Canyon National Park
- Gila Water Commissioner
  - Safford, Arizona

STATE

- Arizona Game and Fish Department
- Arizona State Parks Board
- University of Arizona
  - Arizona Agricultural Experiment Station
  - Water Resource Research Center
  - Department of Watershed Management

MUNICIPAL

- City of Flagstaff

IRRIGATION PROJECTS

- Salt River Valley Water User's Association
  - Phoenix, Arizona
- San Carlos Irrigation and Drainage District
  - Coolidge, Arizona
- Maricopa County Municipal Water Conservation District

PRIVATE

- Southwest Forest Industries, Inc.
  - McNary, Arizona
- Fort Apache Indian Reservation
  - White Mountain Recreation Enterprises

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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"The Conservation of Water begins with the Snow Survey"